

SIEMENS

SIMOTICS M-1FE1 synchronous built-in motor



Figure similar

MLFB-Ordering data

1FE1051-4WN11-1BA2

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data		Mechanical data	
Rated power	6.5 kW	Motor length	130 mm
Rated speed	9500 rpm	Outer diameter stator	120.0 mm
Rated torque	6.5 Nm	Inner diameter rotor	46.0 mm
Rated current	12 A	Stator design	with cooling jacket
Static torque	6.50 Nm	Rotor design	without rotor sleeve
Static current	12.00 A	Motor protection	Cast winding with standard protection (2 temperature sensors)
Maximum speed	30000 rpm	Temperature monitoring	KTY84 temperature sensor in the stator winding
Maximum torque	13.0 Nm	Cable outlet	Free cable ends 500 mm (cable outlet at the larger outside housing diameter)
Maximum current	24 A	Scope of delivery	Stator + Rotor
Rotor moment of inertia	0.00057 kgcm ²		
VPM module *	Voltage limitation required (VPM or IVP)		
Physical constants			
Voltage constant at 20° C	34.0 V/1000*min ⁻¹		
Winding resistance at 20° C	1.2000 Ω		
Rotary field inductance	6.70 mH		
Thermal time constant	1 min		
Net weight of rotor	0.7 kg		
Net weight of stator	4.5 kg		
Total net weight	5.2 kg		

* VPM: Voltage Protection Module